

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P452792

Luminaire Tested: **GALN-SA3D-730-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452792  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-730-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15441 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

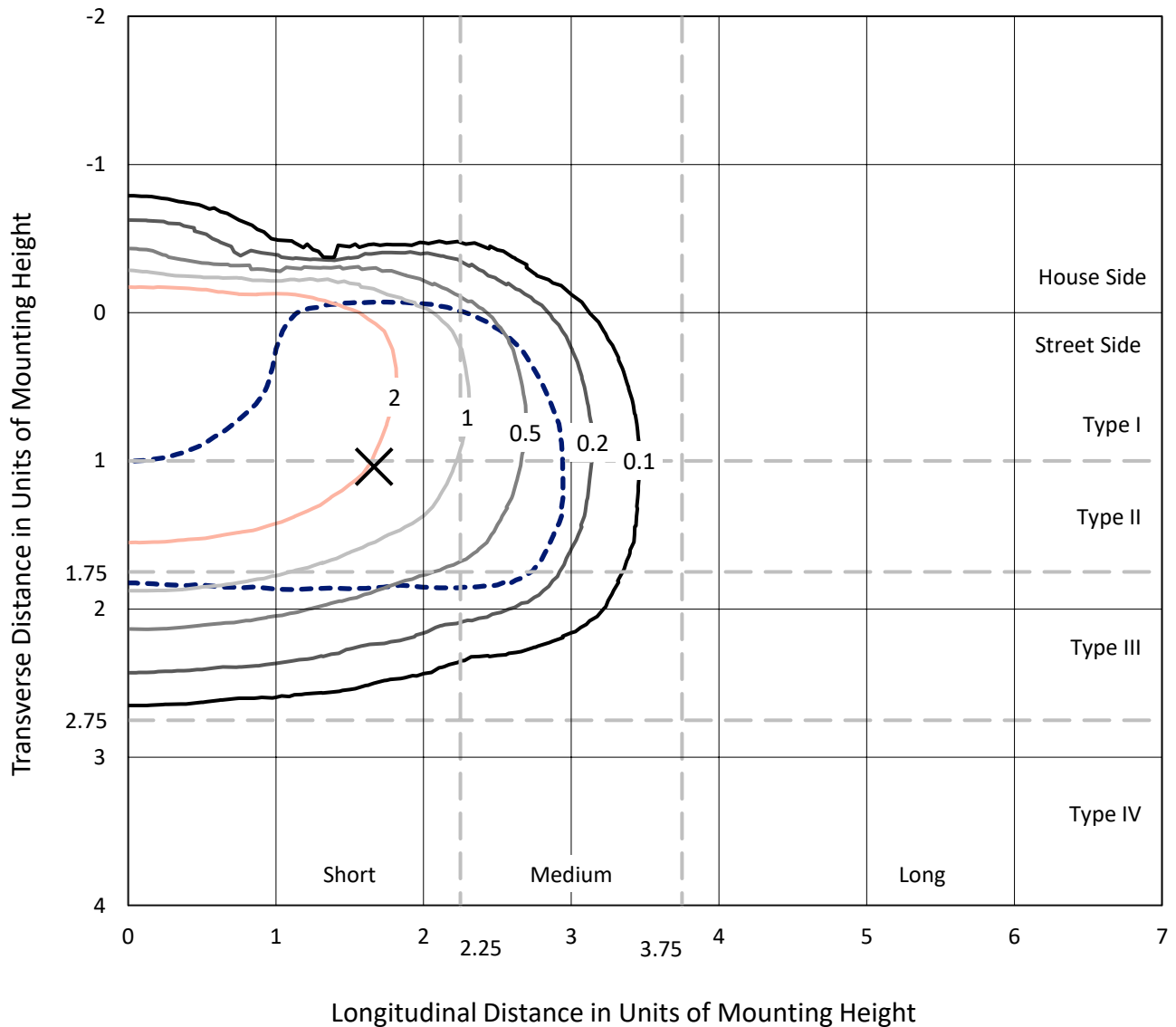
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

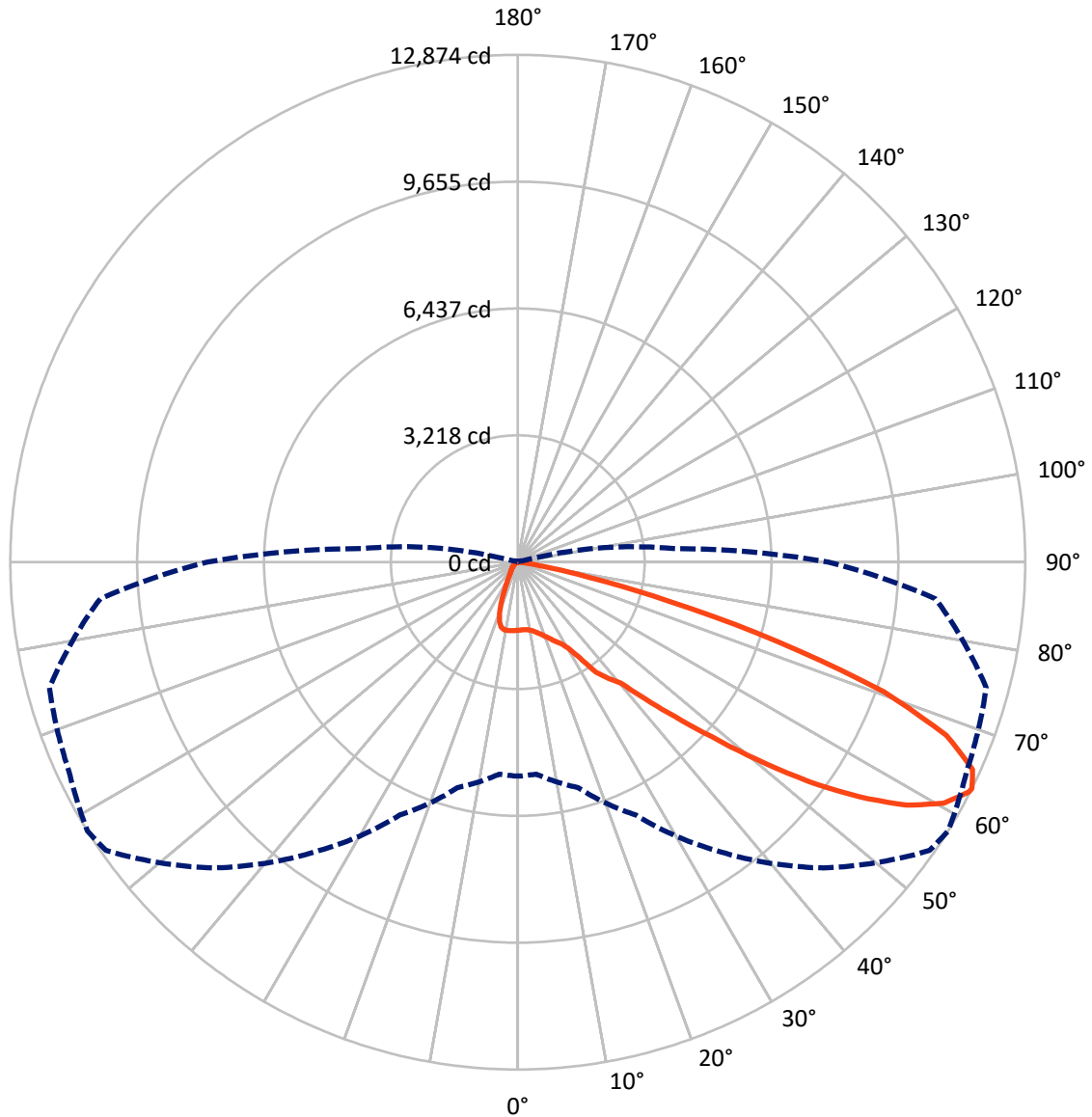
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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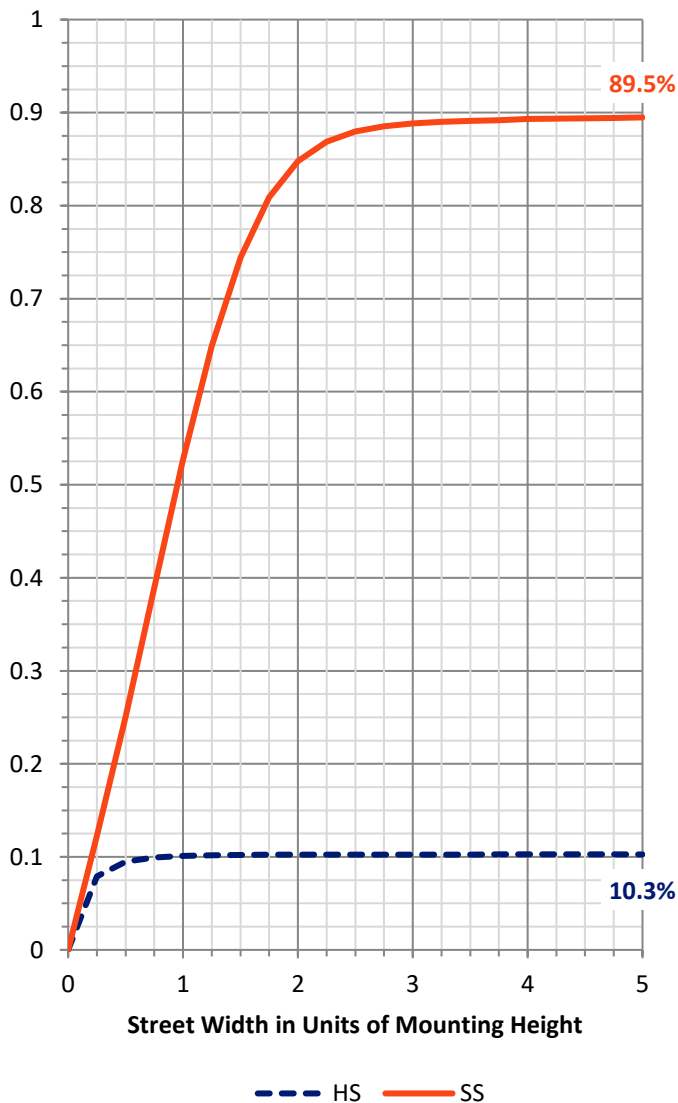
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1598.8	0.0	1598.8
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	13842.2	0.0	13842.2
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	15441.0	0.0	15441.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.8	1.0
10°-20°	440.8	2.9
20°-30°	765.0	5.0
30°-40°	1405.7	9.1
40°-50°	2646.2	17.1
50°-60°	4526.1	29.3
60°-70°	4333.8	28.1
70°-80°	1105.1	7.2
80°-90°	56.5	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	15441.0	100.0
0°-180°	15441.0	100.0

**Coefficient of Utilization**



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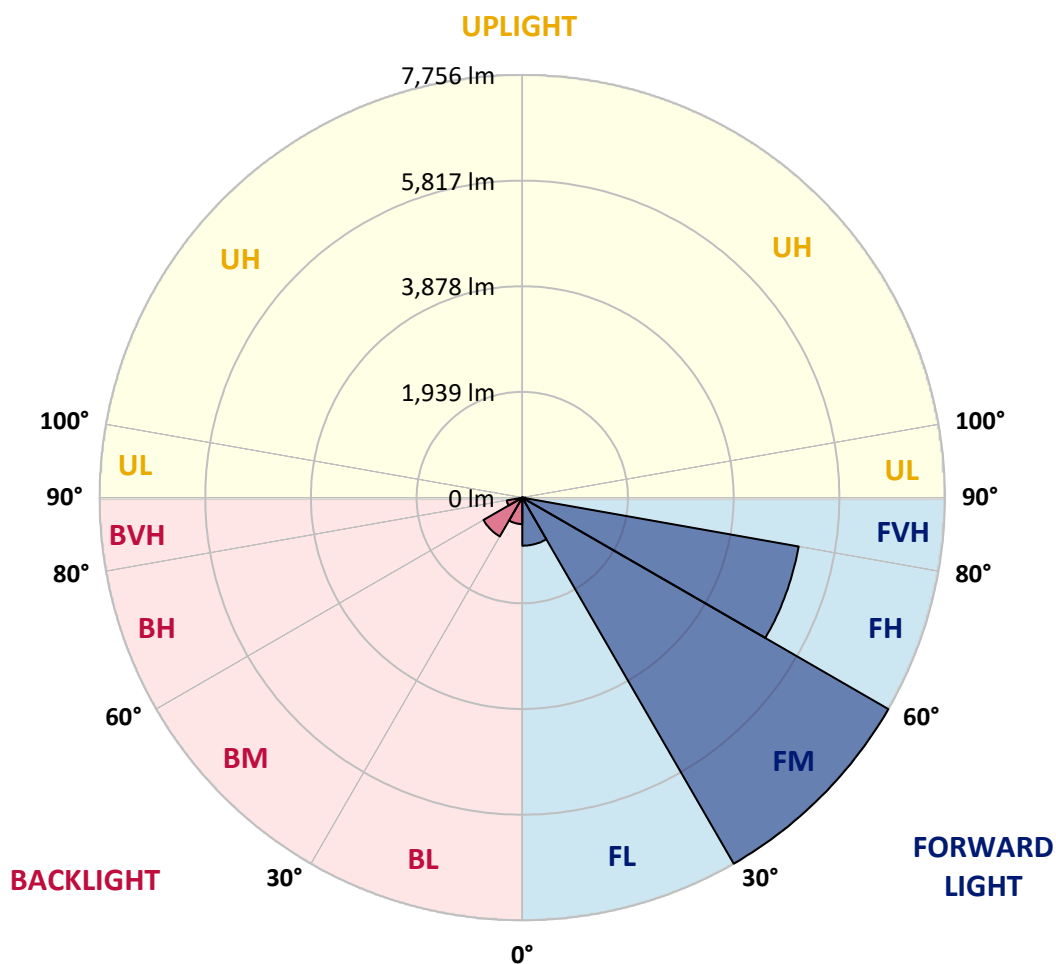
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	882.7	5.7			
FM (30°-60°)	7755.7	50.2			
FH (60°-80°)	5149.5	33.3			G3/7500
FVH (80°-90°)	54.3	0.4			G1/100
BL (0°-30°)	484.9	3.1	B1/500		
BM (30°-60°)	822.3	5.3	B1/1000		
BH (60°-80°)	289.4	1.9	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1728.7	1728.7	1728.7	1728.7	1728.7	1728.7	1728.7	1728.7	1728.7	1728.7	1728.7
2.5°	1685.7	1691.5	1697.3	1699.6	1707.8	1715.9	1721.7	1720.5	1729.8	1734.5	1734.5
5°	1618.2	1618.2	1633.4	1647.3	1670.6	1693.8	1715.9	1720.5	1738.0	1754.3	1760.1
7.5°	1561.3	1564.8	1576.4	1602.0	1633.4	1674.0	1718.2	1728.7	1758.9	1794.9	1810.1
10°	1534.5	1536.9	1552.0	1578.7	1618.2	1674.0	1735.7	1755.4	1801.9	1858.9	1879.8
12.5°	1528.7	1532.2	1547.3	1577.6	1622.9	1690.3	1774.0	1794.9	1862.4	1935.6	1967.0
15°	1539.2	1541.5	1556.6	1589.2	1639.2	1719.4	1825.2	1854.2	1934.4	2019.3	2060.0
17.5°	1576.4	1574.1	1584.5	1611.3	1667.1	1755.4	1886.8	1921.7	2015.8	2132.1	2158.8
20°	1734.5	1719.4	1710.1	1686.8	1708.9	1806.6	1961.2	2012.3	2128.6	2247.2	2265.8
22.5°	2075.1	2041.4	1975.1	1884.5	1814.7	1876.3	2050.7	2110.0	2260.0	2376.2	2376.2
25°	2508.7	2465.7	2399.5	2201.8	2030.9	1991.4	2151.8	2226.2	2402.9	2520.4	2482.0
27.5°	3051.6	3017.9	2888.9	2658.7	2397.1	2192.5	2269.3	2337.8	2529.7	2671.5	2591.3
30°	3493.4	3477.1	3371.3	3165.6	2877.3	2578.5	2487.8	2533.1	2698.2	2862.1	2779.6
32.5°	3866.6	3866.6	3758.5	3566.6	3296.9	3031.9	2858.7	2891.2	3049.3	3238.8	3085.4
35°	4276.9	4263.0	4175.8	3993.3	3691.0	3457.4	3386.4	3430.6	3573.6	3714.3	3336.5
37.5°	4708.2	4703.6	4612.9	4436.2	4189.8	3895.6	3729.4	3741.0	3814.3	3900.3	3630.6
40°	5176.7	5183.7	5065.1	4955.9	4723.4	4422.3	4103.7	4030.5	4099.1	4342.0	4173.5
42.5°	5730.1	5713.8	5662.7	5513.9	5326.7	5146.5	4764.0	4737.3	4797.8	5058.2	4875.6
45°	6373.0	6396.2	6307.9	6225.3	6099.8	5949.8	5630.1	5583.6	5649.9	6054.4	5795.2
47.5°	7017.0	6994.9	7051.9	7036.8	7104.2	6992.6	6710.1	6614.8	6774.1	7157.7	6776.4
50°	7507.6	7532.0	7650.6	7823.8	8113.3	8176.1	7905.2	7872.6	7943.6	8190.0	7654.1
52.5°	7826.1	7907.5	8093.5	8538.8	9060.7	9466.5	9260.7	9243.3	9214.2	9280.5	8493.4
55°	8034.2	8116.8	8359.7	9015.4	9914.0	10573.2	10583.7	10509.3	10317.4	10269.8	9278.1
57.5°	7906.4	7922.6	8269.1	9145.6	10387.2	11362.6	11704.3	11629.9	11275.4	11095.2	9971.0
60°	7106.5	7140.2	7622.7	8652.7	10181.4	11620.6	12447.2	12413.5	12025.2	11821.8	10510.4
62.5°	5689.4	5787.1	6283.5	7432.0	9224.7	11185.8	12748.3	12843.6	12541.4	12261.2	10680.1
63°	5429.0	5397.6	5921.9	7076.3	8971.2	10970.8	12752.9	12873.8	12564.6	12303.0	10633.6
65°	4018.9	4113.0	4453.6	5580.1	7465.8	9969.8	12465.8	12679.7	12478.6	12118.2	10118.6
67.5°	2256.5	2251.8	2628.5	3651.5	5225.6	7820.3	11271.9	11724.1	11682.2	10874.3	8387.6
70°	1104.4	1121.8	1276.5	1892.6	3030.7	5395.3	9366.5	9854.8	9869.9	8541.1	5799.9
72.5°	499.9	508.0	618.5	921.9	1557.8	2872.6	6454.4	6920.5	6834.5	5443.0	3202.8
75°	263.9	281.3	340.6	463.8	751.0	1184.6	3510.8	3961.9	3781.7	2486.6	1178.8
77.5°	195.3	201.1	231.3	295.3	402.2	461.5	1514.8	1801.9	1688.0	899.8	390.6
80°	143.0	147.6	172.1	209.3	253.4	234.8	570.8	654.5	587.1	305.7	119.7
82.5°	87.2	88.4	125.6	155.8	159.3	131.4	188.3	202.3	211.6	172.1	65.1
85°	31.4	39.5	84.9	112.8	94.2	66.3	79.1	87.2	95.3	109.3	38.4
87.5°	3.5	4.7	40.7	54.6	26.7	24.4	29.1	32.6	34.9	40.7	18.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1728.7	1728.7	1728.7	1728.7	1728.7	1728.7	1728.7	1728.7	1728.7	1728.7	1728.7
2.5°	1739.1	1743.8	1740.3	1734.5	1733.3	1729.8	1722.9	1722.9	1722.9	1725.2	1722.9
5°	1764.7	1768.2	1760.1	1748.4	1735.7	1719.4	1701.9	1691.5	1690.3	1688.0	1682.2
7.5°	1813.5	1818.2	1799.6	1771.7	1736.8	1697.3	1660.1	1625.2	1608.9	1596.2	1596.2
10°	1884.5	1889.1	1851.9	1801.9	1732.2	1652.0	1563.6	1483.4	1420.6	1391.5	1384.6
12.5°	1969.3	1971.6	1910.0	1822.8	1707.8	1553.1	1364.8	1189.3	1067.2	1011.4	1005.6
15°	2062.3	2046.0	1964.7	1831.0	1638.0	1349.7	1024.2	809.1	682.4	645.2	659.2
17.5°	2156.5	2126.3	2006.5	1818.2	1481.1	1024.2	688.2	552.2	512.7	502.2	502.2
20°	2244.8	2203.0	2036.7	1762.4	1209.0	705.7	510.3	477.8	470.8	463.8	465.0
22.5°	2333.2	2269.3	2063.5	1638.0	901.0	504.5	456.9	446.4	437.1	427.8	426.6
25°	2419.2	2330.9	2074.0	1407.8	613.8	433.6	417.3	403.4	384.8	374.3	372.0
27.5°	2508.7	2405.3	2067.0	1117.2	447.6	388.3	372.0	352.2	330.2	311.6	311.6
30°	2680.8	2547.1	2042.6	803.3	376.7	341.8	320.9	289.5	265.1	246.5	245.3
32.5°	2915.6	2731.9	1958.9	565.0	334.8	301.1	269.7	234.8	209.3	195.3	195.3
35°	3124.9	2917.9	1801.9	416.2	301.1	261.6	223.2	189.5	169.7	160.4	156.9
37.5°	3443.4	3190.0	1585.7	338.3	268.5	226.7	187.2	155.8	139.5	132.5	132.5
40°	3921.2	3522.5	1320.6	296.4	237.2	193.0	155.8	131.4	118.6	110.4	110.4
42.5°	4514.1	3929.3	1052.1	266.2	208.1	166.2	130.2	111.6	100.0	94.2	93.0
45°	5260.4	4358.3	810.3	238.3	184.8	141.8	110.4	94.2	82.5	79.1	80.2
47.5°	6039.3	4736.1	627.8	213.9	160.4	119.7	94.2	81.4	73.2	68.6	68.6
50°	6704.3	4996.5	476.6	186.0	141.8	101.1	82.5	73.2	66.3	63.9	62.8
52.5°	7260.0	5072.1	365.0	161.6	124.4	87.2	73.2	66.3	60.5	57.0	57.0
55°	7733.1	5005.8	286.0	136.0	104.6	75.6	65.1	59.3	52.3	48.8	47.7
57.5°	8009.8	4793.1	218.6	112.8	84.9	62.8	57.0	50.0	41.9	36.0	36.0
60°	8149.3	4483.9	167.4	93.0	65.1	50.0	46.5	37.2	29.1	24.4	23.3
62.5°	7981.9	4073.5	126.7	73.2	48.8	37.2	31.4	26.7	18.6	14.0	14.0
63°	7878.5	3954.9	122.1	69.8	45.3	34.9	29.1	24.4	16.3	12.8	11.6
65°	7182.1	3437.6	100.0	55.8	36.0	24.4	19.8	17.4	11.6	5.8	4.7
67.5°	5703.4	2629.6	79.1	41.9	25.6	17.4	11.6	10.5	3.5	0.0	0.0
70°	3856.1	1698.5	61.6	30.2	17.4	10.5	5.8	4.7	1.2	0.0	0.0
72.5°	2011.2	870.7	47.7	22.1	10.5	7.0	3.5	1.2	0.0	0.0	0.0
75°	711.5	296.4	34.9	14.0	7.0	3.5	1.2	0.0	0.0	0.0	0.0
77.5°	215.1	110.4	22.1	10.5	4.7	2.3	0.0	0.0	0.0	0.0	0.0
80°	75.6	40.7	12.8	7.0	3.5	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	37.2	19.8	8.1	5.8	3.5	1.2	0.0	0.0	0.0	0.0	0.0
85°	20.9	12.8	7.0	5.8	3.5	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	15.1	9.3	7.0	5.8	4.7	2.3	1.2	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)